

**Public Page**  
**Managing the Integrity of Early Pipelines**  
**Agreement DTRS56-02-T-0002**  
**3<sup>rd</sup> Quarterly Status Report (Payable Milestone 2)**  
**Period October 1, 2003 to December 31, 2003**

Contractor: Battelle

The focus of this project is developing technology and trending to help manage the condition and integrity of vintage pipelines. The first four milestones have been met – an overview of the work products developed to meet the most recent milestone directed at mathematically modeling threats and related degradation in pipelines follows.

In reference to work reported for the first three milestones, the major threats and related degradation mechanisms have been characterized as either plastic collapse or fracture failure processes. Generic approaches for blunt and sharp defects have been formulated as the basis for analysis to be done as part of the next payable milestone.

Work continues directed at maps of re-inspection interval and such concerns to facilitate direct analysis of threat severity.

Point of Contact:

Brian Leis

Battelle, 505 King Ave.

Columbus, Ohio 43201

[leis@battelle.org](mailto:leis@battelle.org)

Voice: 614-424-4421

Fax: 614-458-4421